

Amendments to the Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11. (Canceled)

12. (New) A homogeneous, boron-doped alkaline earth peroxide having a boron content above 0.97 wt.% and below 1.6 wt.%, and a peroxide content of about 75 wt.% or more, calculated based on the active oxygen content.

13. (New) A homogeneous, boron-doped alkaline earth peroxide according to claim 12, wherein the alkaline earth peroxide is a calcium peroxide or an alkaline earth mixed peroxide.

14. (New) A homogeneous, boron-doped alkaline earth peroxide according to claim 13, wherein the alkaline earth mixed peroxide is a mixed calcium/magnesium peroxide.

15. (New) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 12, said process comprising:

reacting an aqueous solution or suspension containing alkaline earth hydroxide and hydrogen peroxide with

- sodium metaborate solution and aqueous hydrogen peroxide solution, or
- sodium metaborate solution, or
- boric acid, and

evaporating water to obtain a solid and drying the solid to obtain the homogeneous, boron-doped alkaline earth peroxide product.

16. (New) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 12, said process comprising:

reacting an aqueous solution or suspension of calcium hydroxide and sodium metaborate solution with an aqueous hydrogen peroxide solution, and evaporating water to obtain a solid and drying the solid to obtain the homogeneous, boron-doped alkaline earth peroxide product.

17. (New) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 12, said process comprising:

reacting a calcium peroxide suspension with sodium metaborate solution and optionally with an aqueous hydrogen peroxide solution or with boric acid, and

drying the resulting reaction mixture to obtain a homogeneous, boron-doped calcium peroxide as a solid product.

18. (New) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 12, said process comprising:

reacting an aqueous solution or suspension of a homogeneous, alkaline earth mixed peroxide with

- sodium metaborate solution and aqueous hydrogen peroxide solution, or
- sodium metaborate solution, or
- boric acid, and

evaporating water to obtain a solid and drying the solid to obtain the homogeneous, boron-doped alkaline earth peroxide product.

19. (New) A method of treating agricultural seed, said method comprising applying to said seed a treatment composition comprising a homogeneous, boron-doped alkaline earth peroxide according to claim 12.